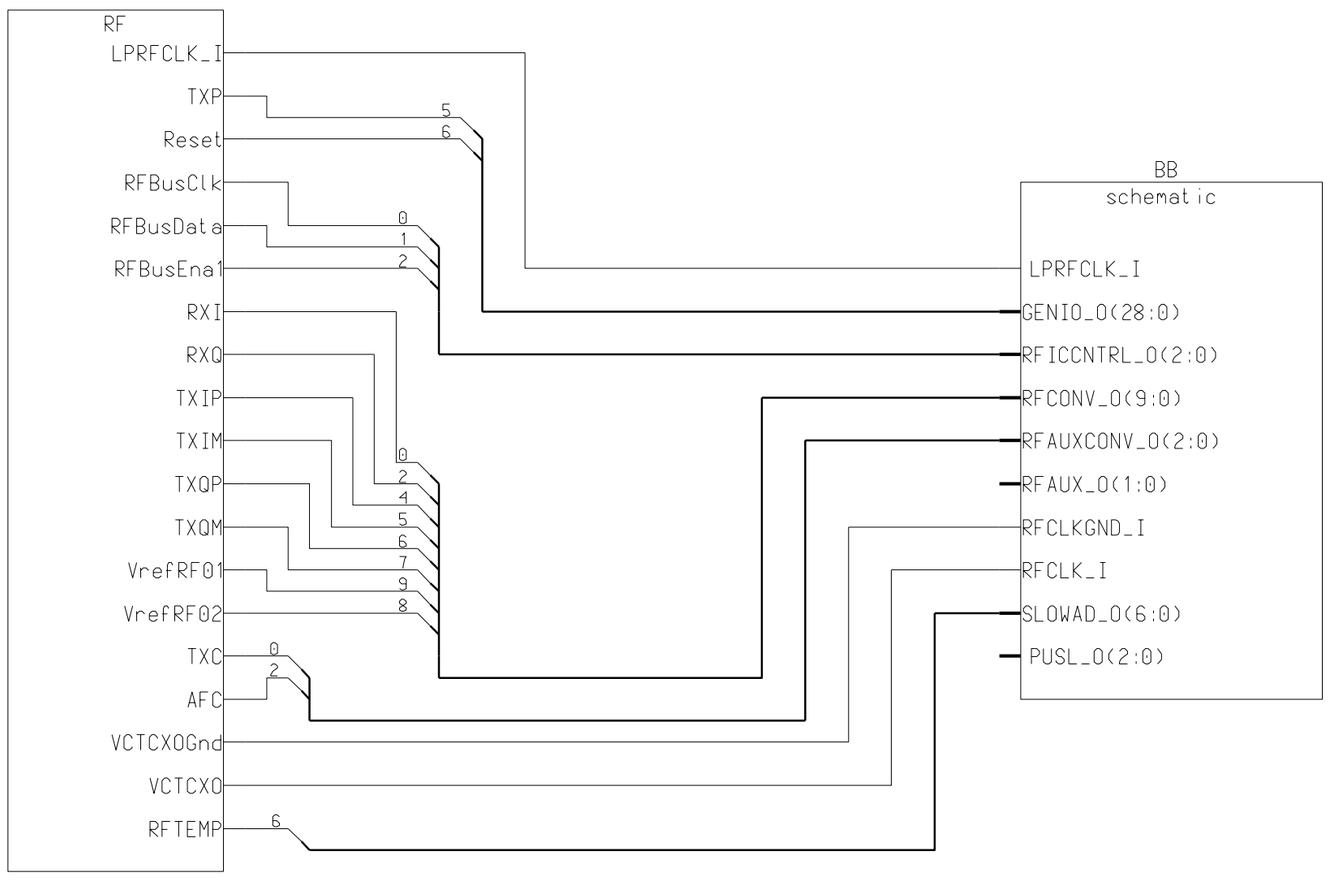
RF-BB Connection Diagram

GLOBAL SYMBOLS	
VR1A	
VR2	
VR3	
VR4	
VR5	
VR6	
VR7	
VBAT	
IPA1	Not used
IPA2	Not used



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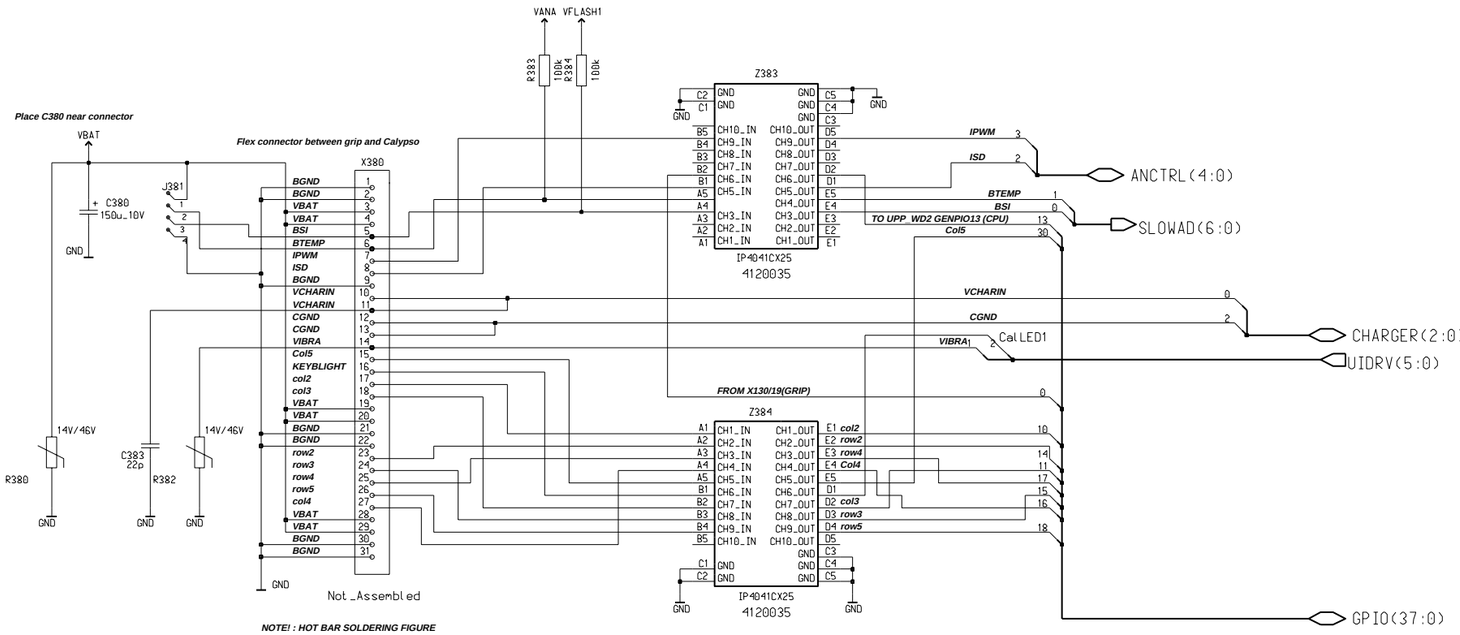
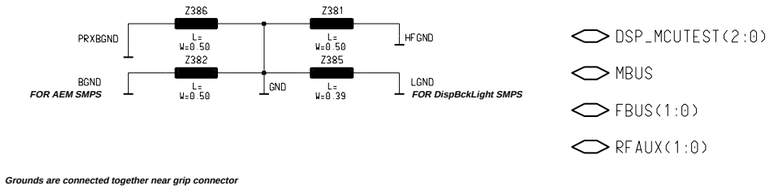
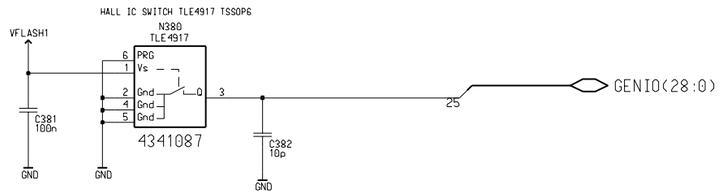
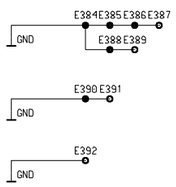
System Connector Diagram





Note 1: These Are ScrewHoles





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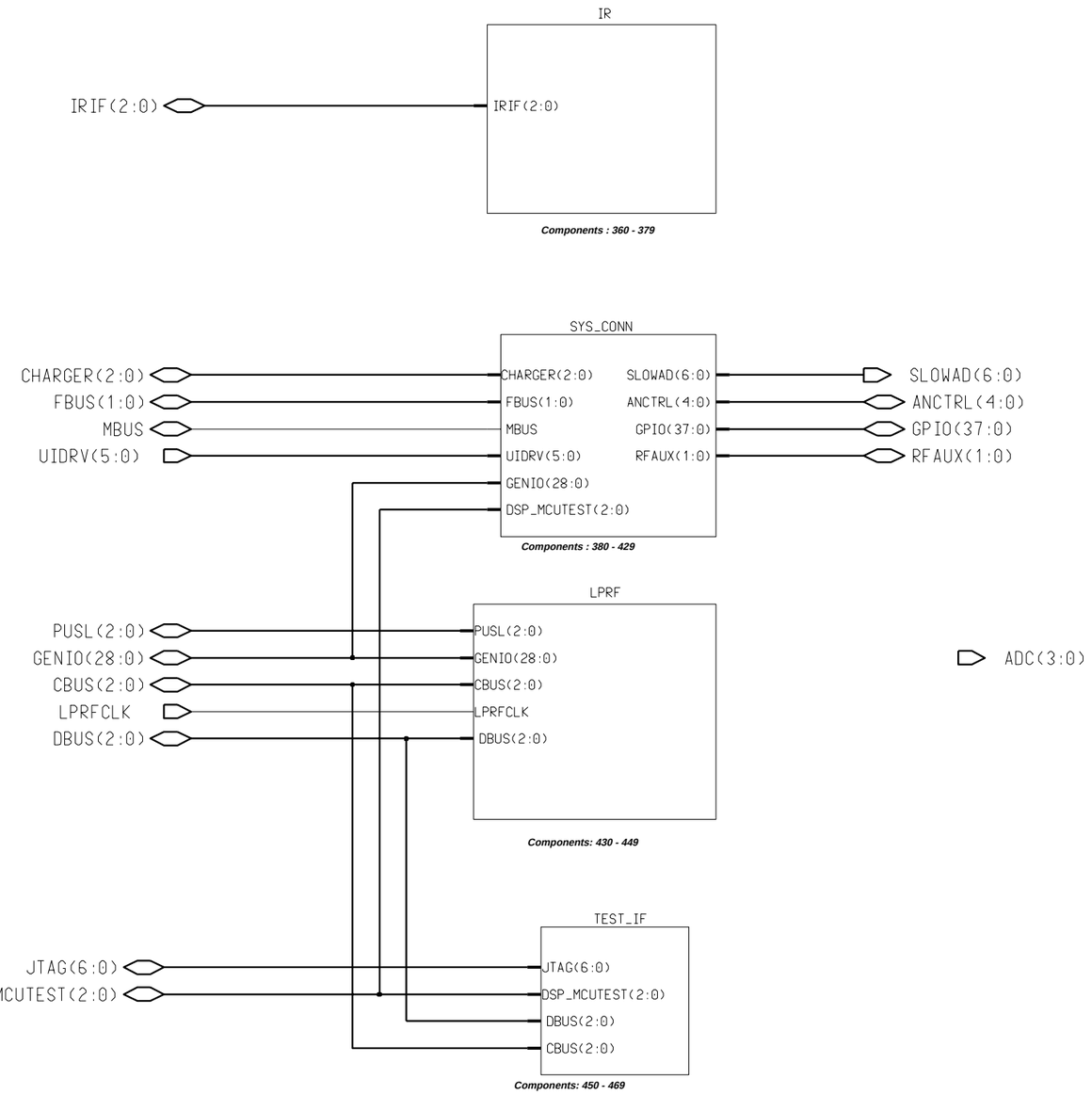
Accessories Interface Diagram



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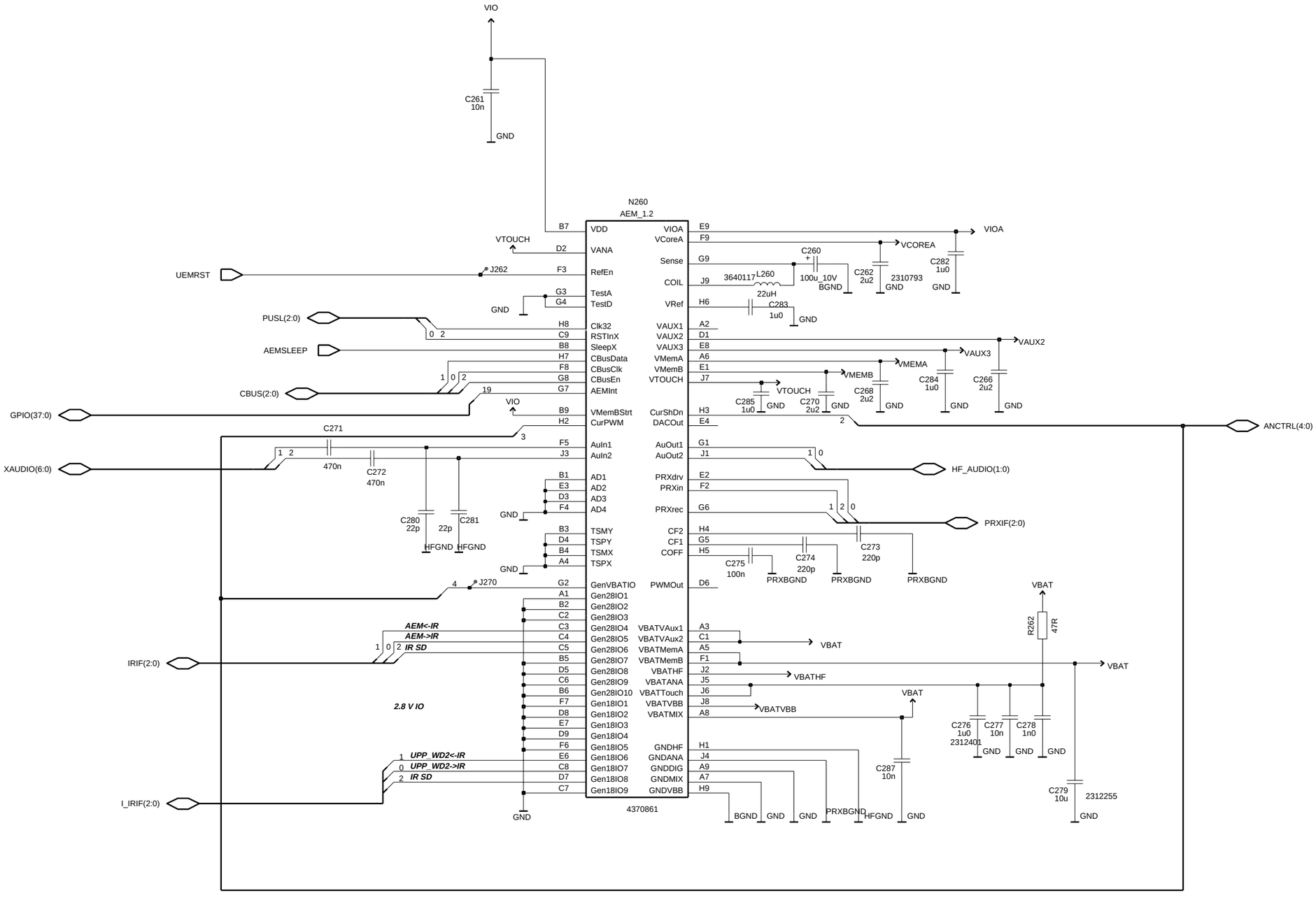
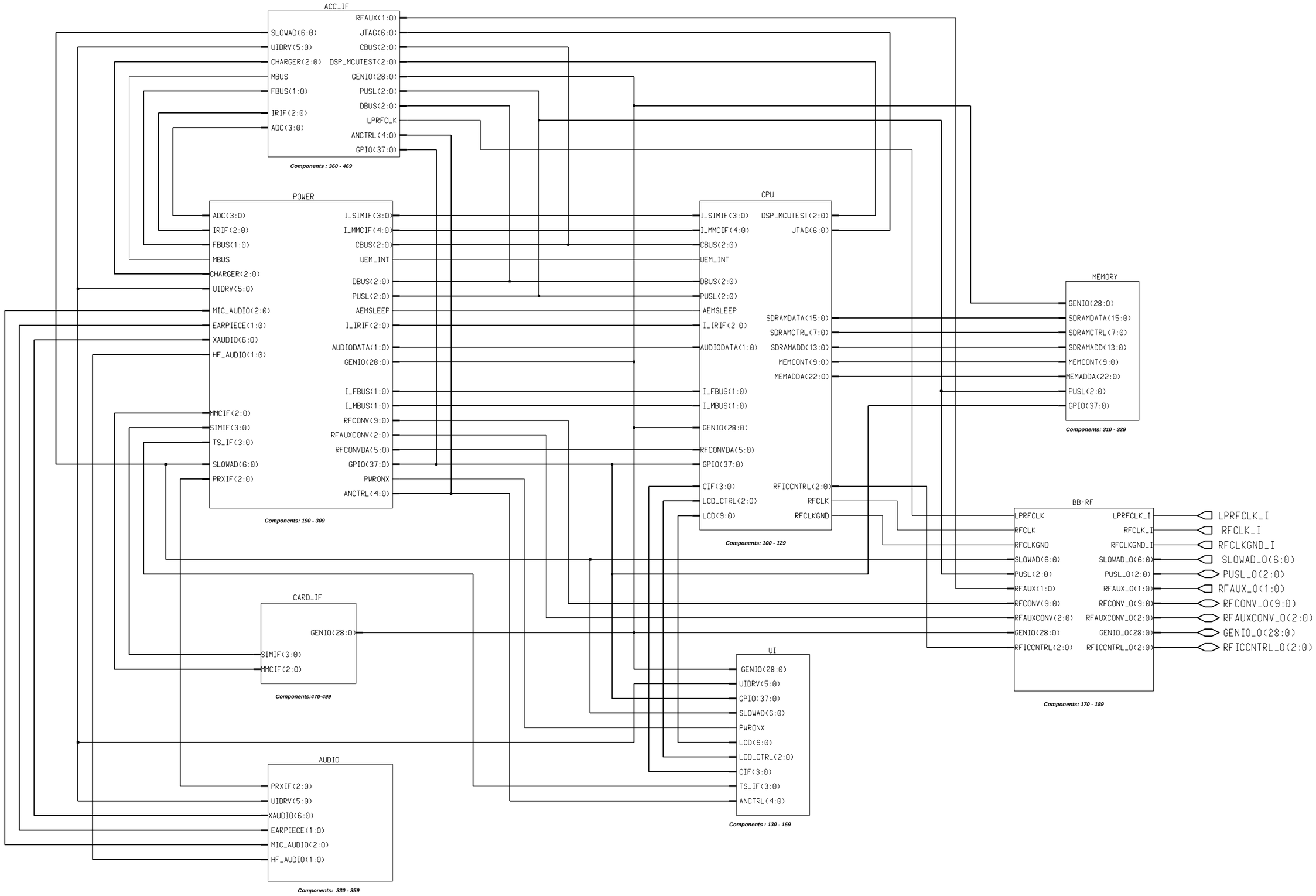
AEM Diagram


VIO
C261
10n
GND
N260
AEM_1.2
VDD
VANA
RefEn
TestA
TestD
Clk32
RSTInX
SleepX
CBusData
CBusClk
CBusEn
AEMInt
VMemBStrt
CurPWM
AuIn1
AuIn2
AD1
AD2
AD3
AD4
TSMY
TSPY
TSMX
TSPX
GenVBATIO
Gen28IO1
Gen28IO2
Gen28IO3
Gen28IO4
Gen28IO5
Gen28IO6
Gen28IO7
Gen28IO8
Gen28IO9
Gen28IO10
Gen18IO1
Gen18IO2
Gen18IO3
Gen18IO4
Gen18IO5
Gen18IO6
Gen18IO7
Gen18IO8
Gen18IO9
VIOA
VCoreA
Sense
COIL
VRef
VAUX1
VAUX2
VAUX3
VMemA
VMemB
VTOUCH
CurShDn
DACOut
AuOut1
AuOut2
PRXdrv
PRXin
PRXrec
CF2
CF1
COFF
PWMOut
VBATVAux1
VBATVAux2
VBATMemA
VBATMemB
VBATHF
VBATANA
VBATTouch
VBATVBB
VBATMIX
GNDHF
GNDANA
GNDDIG
GNDMIX
GNDVBB
4370861
VTOUCH
UEMRST
J262
PUSL(2:0)
AEMSLEEP
CBUS(2:0)
GPIO(37:0)
XAUDIO(6:0)
IRIF(2:0)
I_IRIF(2:0)
J270
C271
470n
C272
470n
C280
22p
C281
22p
HFGND
AEM<-IR
AEM->IR
IR SD
2.8 V IO
UPP_WD2<-IR
UPP_WD2->IR
IR SD
3640117L260
22uH
C260
100u_10V
BGND
C262
2u2
2310793
GND
C282
1u0
C283
1u0
VIOA
VCOREA
VAUX2
VAUX3
VMEMA
VMEMB
C284
1u0
C266
2u2
C268
2u2
C285
1u0
C270
2u2
ANCTRL(4:0)
HF_AUDIO(1:0)
PRXIF(2:0)
C273
220p
C274
220p
C275
100n
PRXBGND
VBAT
R262
47R
C276
1u0
2312401
C277
10n
C278
1n0
C287
10n
C279
10u
2312255
BGND
HFGND
TS_IF(3:0)
MMCIF(2:0)
I_MMCIF(4:0)
ADC(3:0)
GENIO(28:0)

Baseband Diagram



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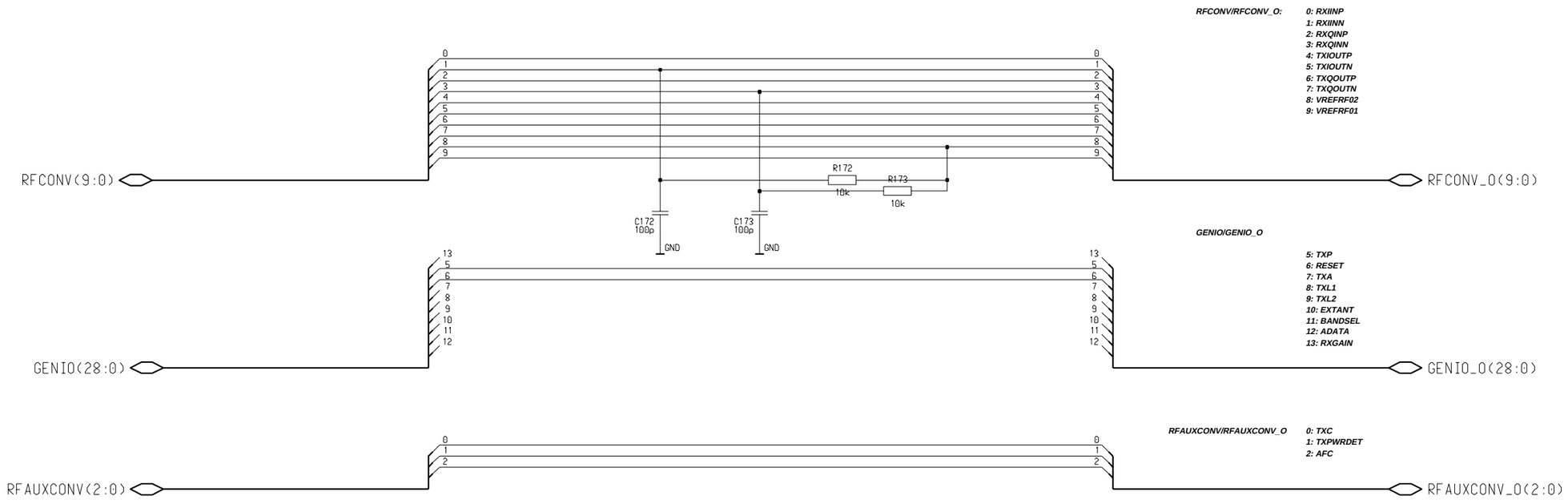
BB-RF Interface Diagram



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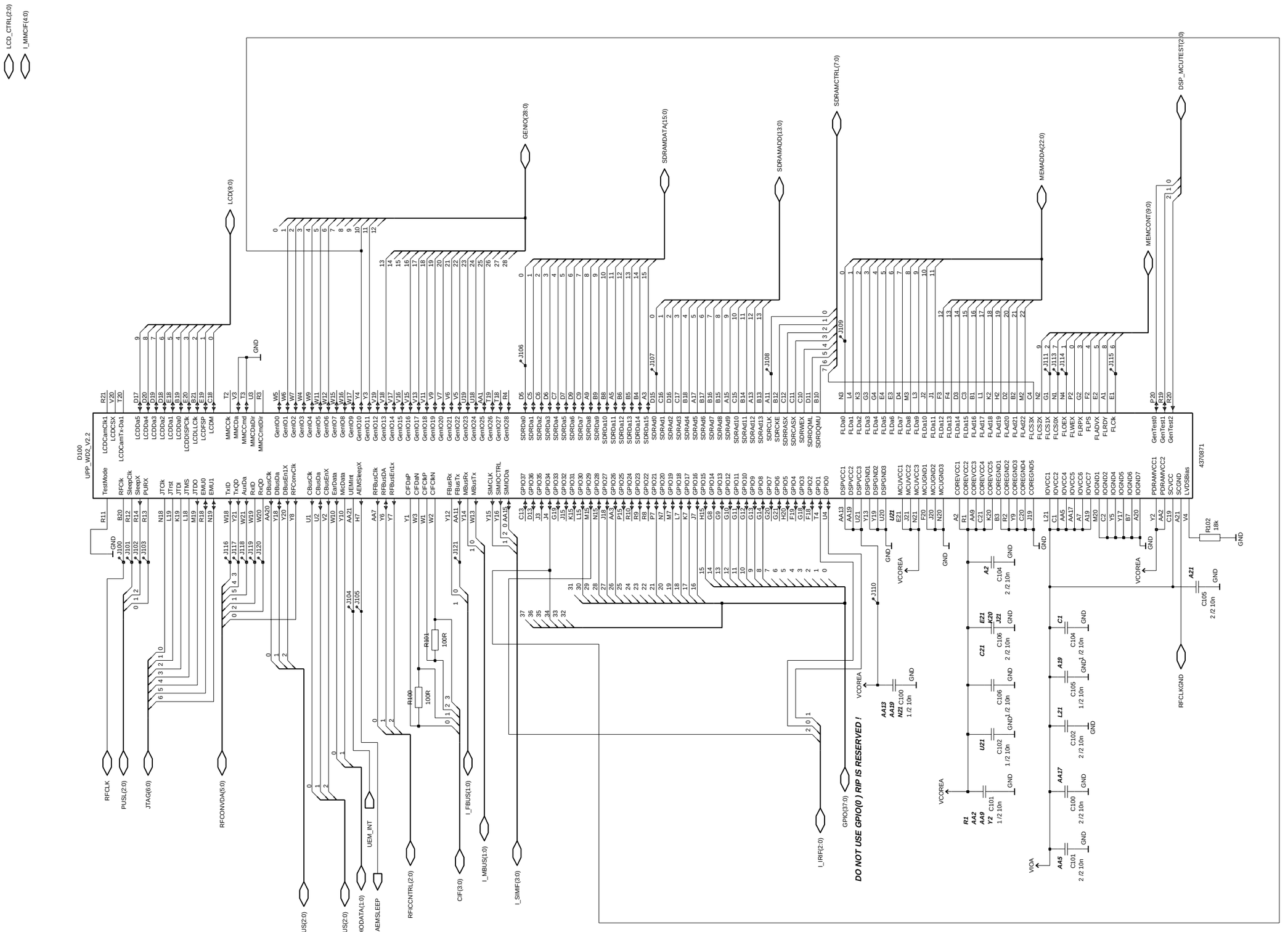
CPU Diagram



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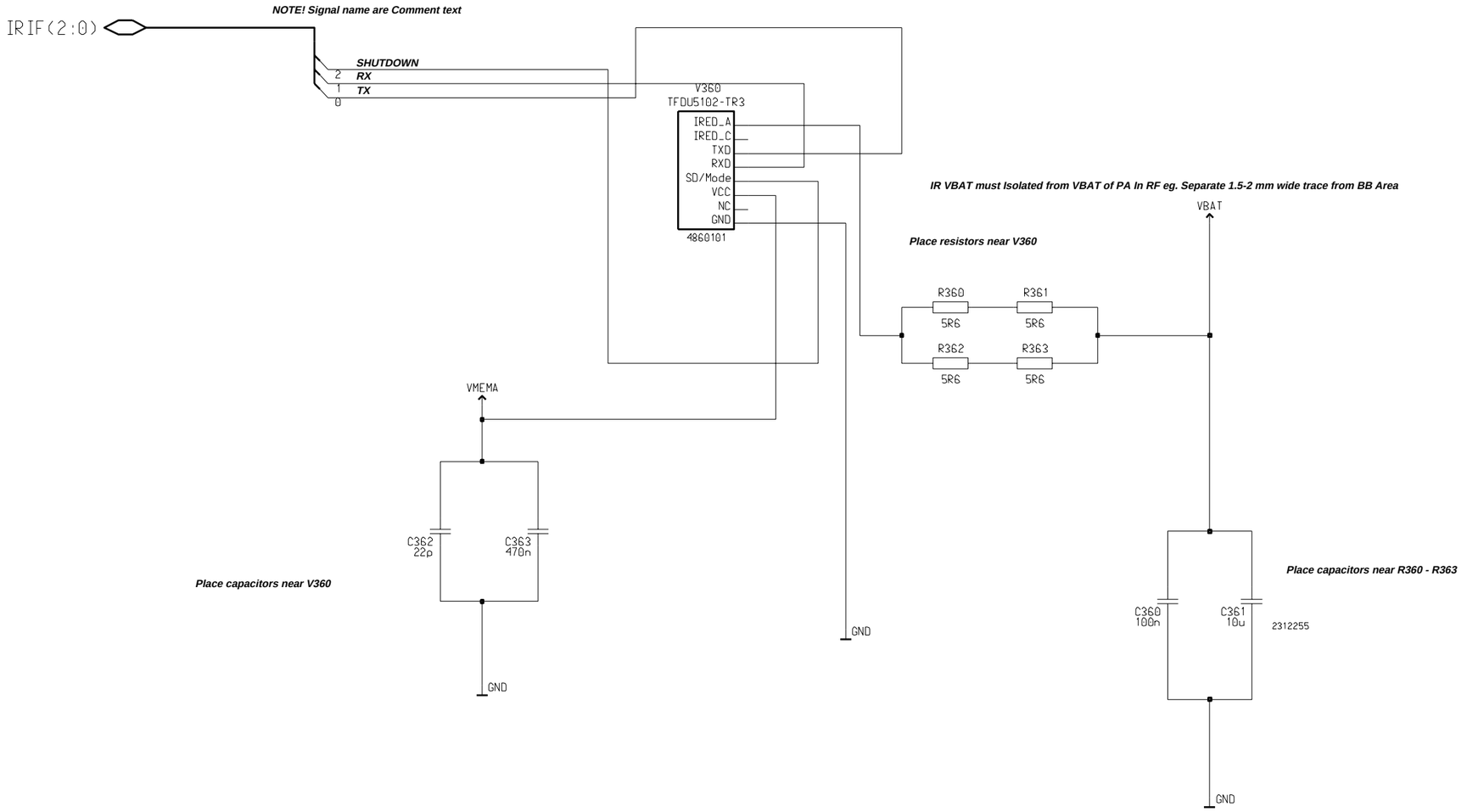
IR Module Diagram



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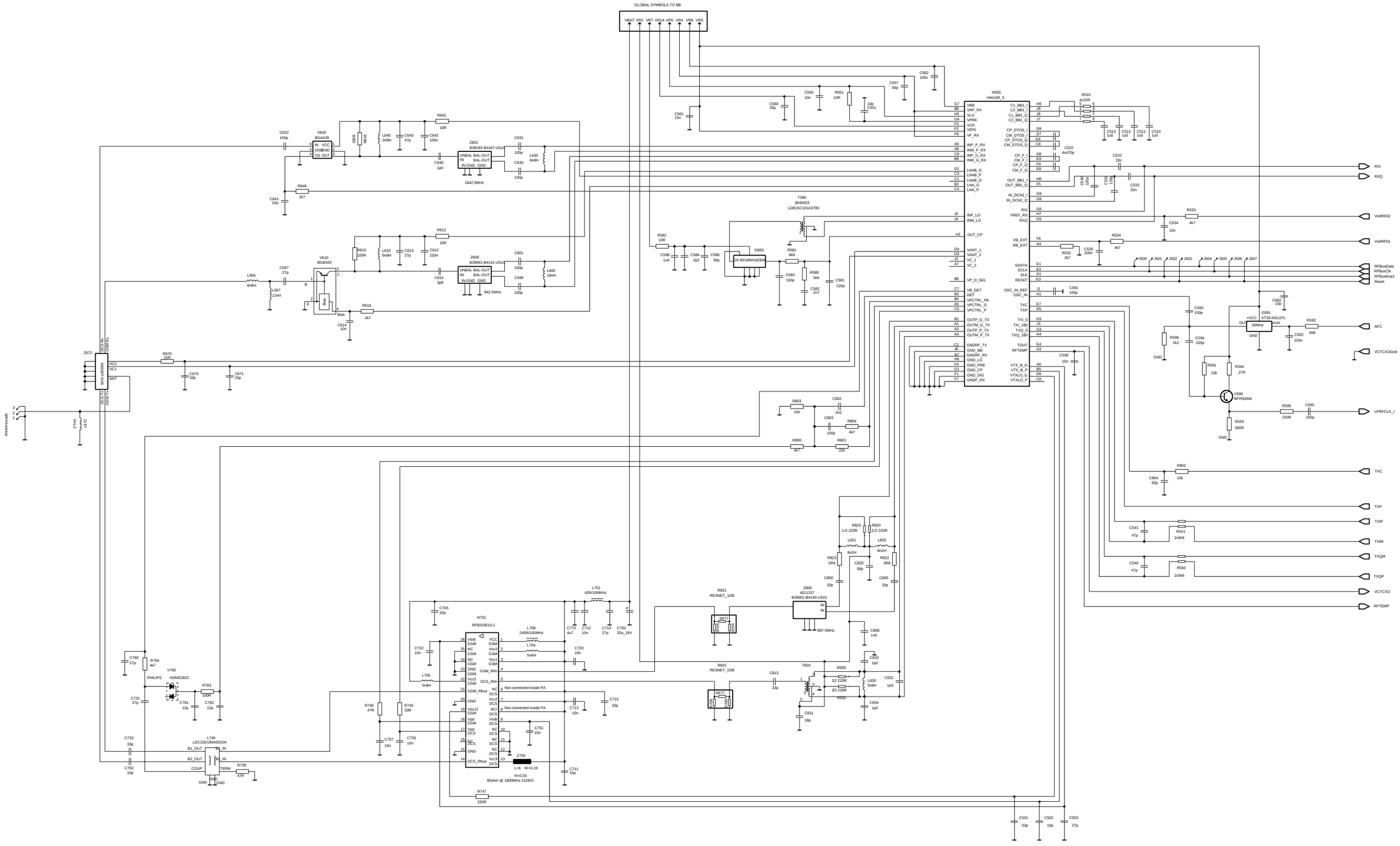
RF Diagram



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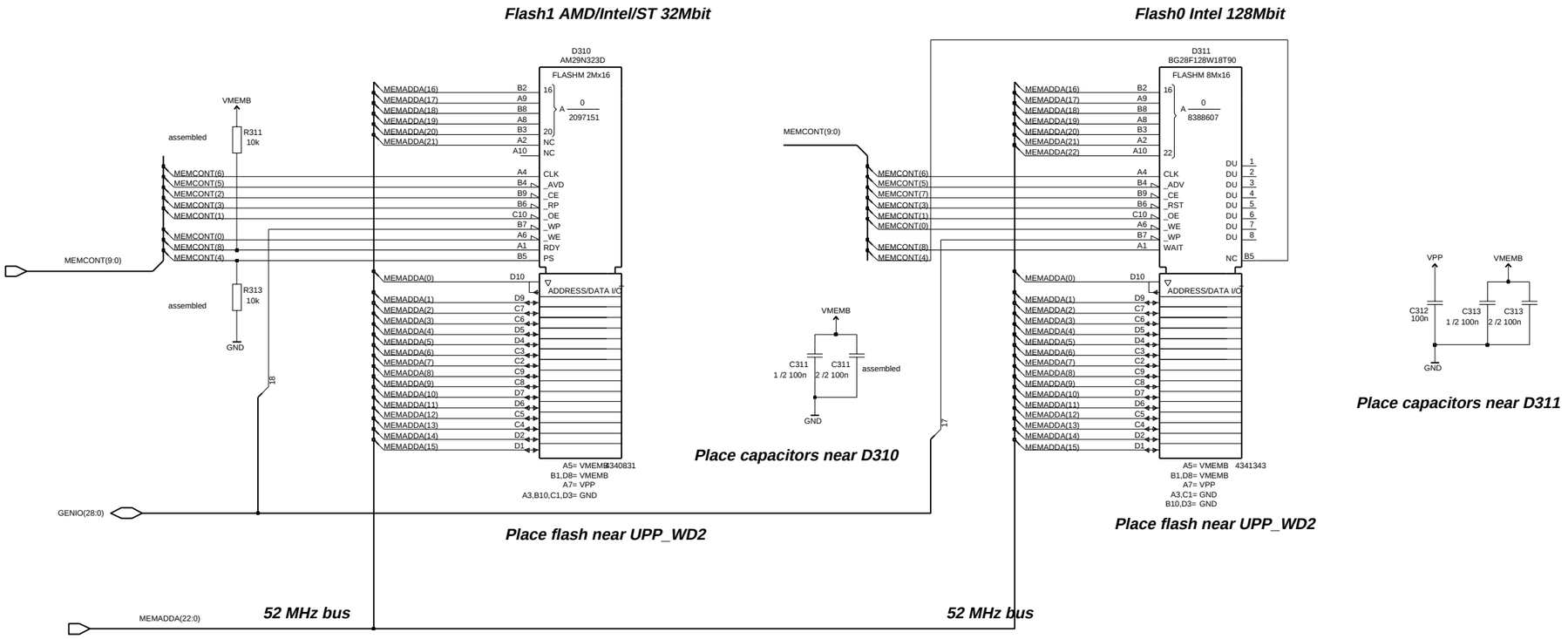
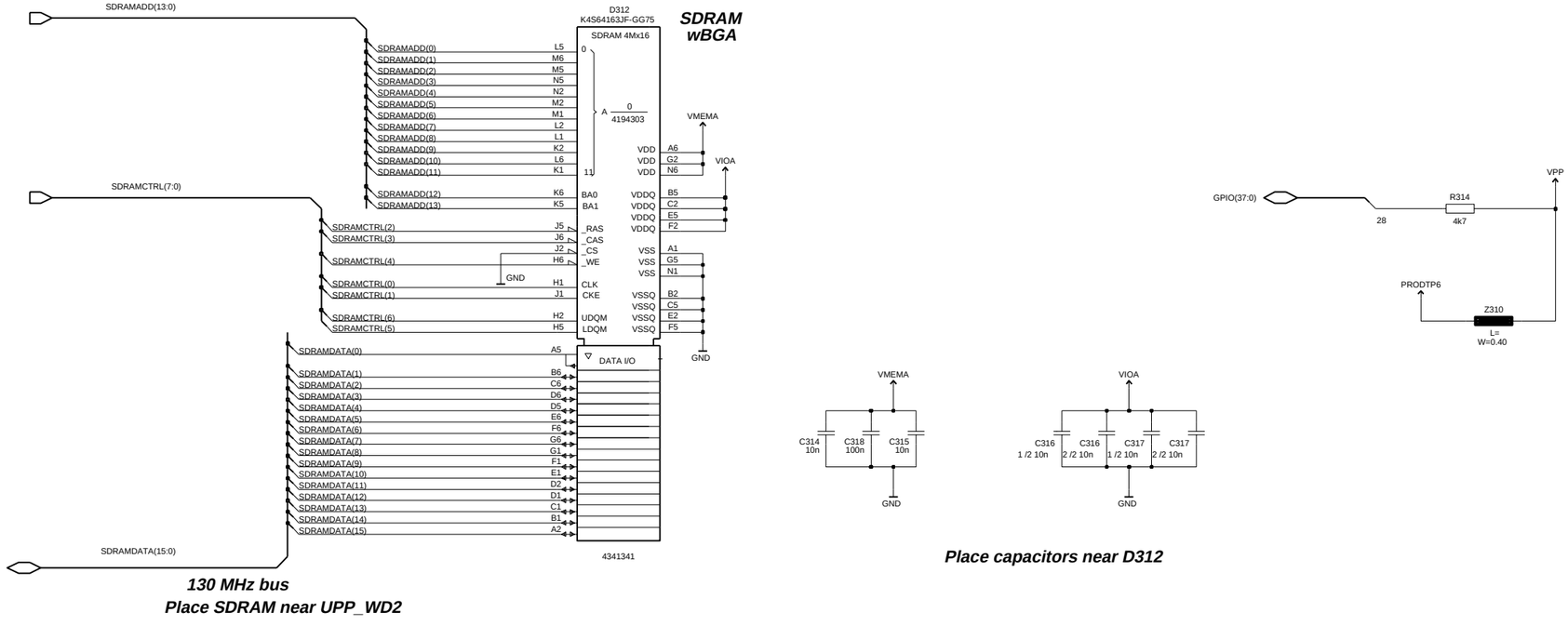
Memories Diagram





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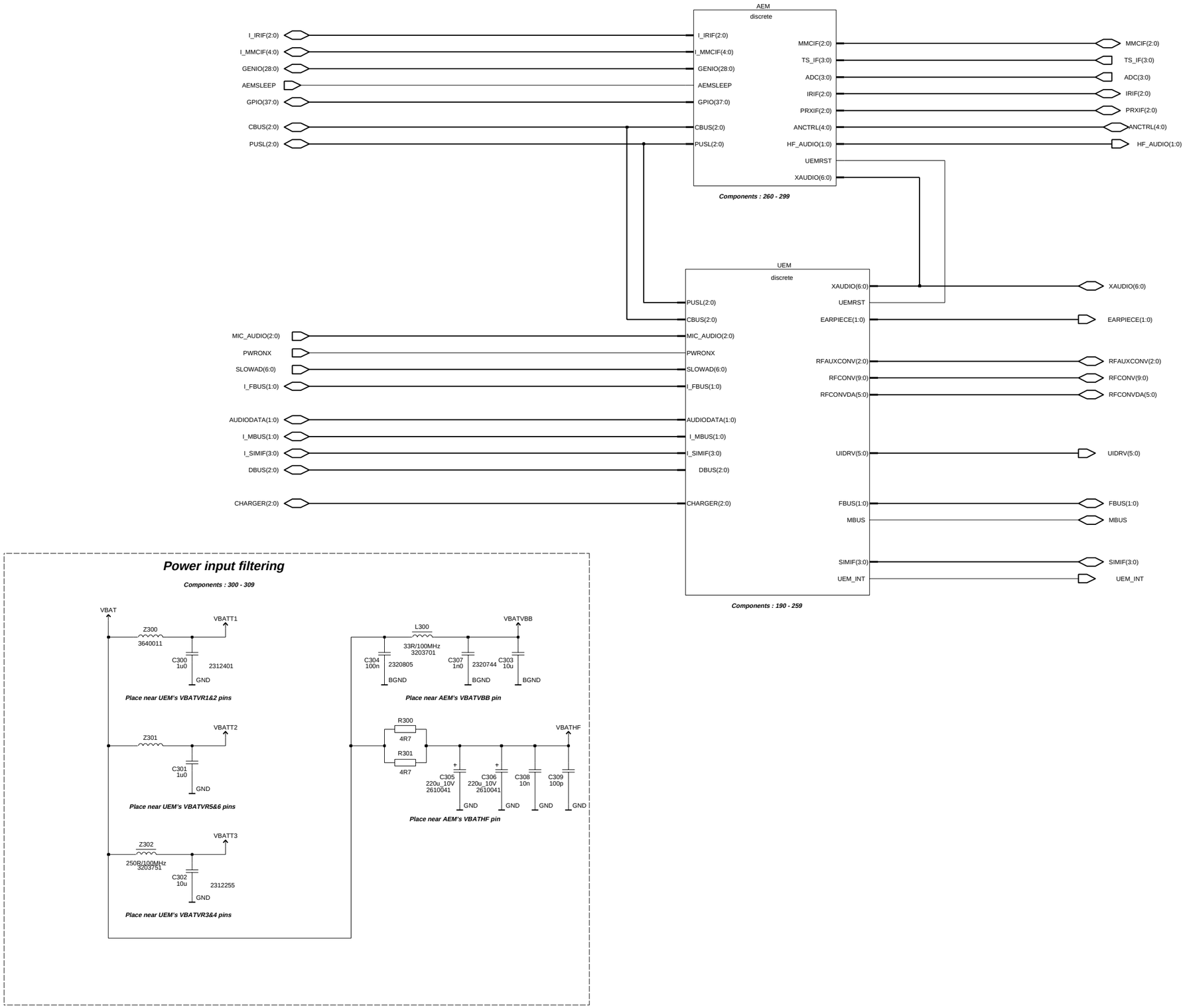
Power Diagram



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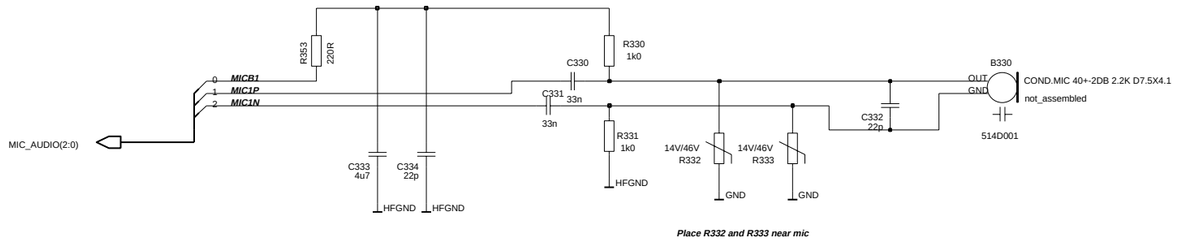
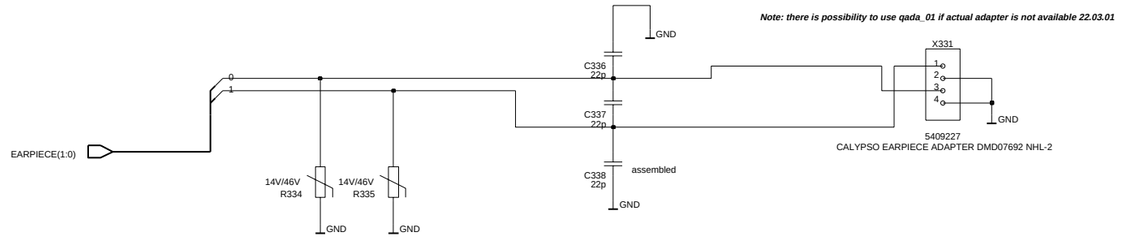
Audio

UIDRV(5:0)

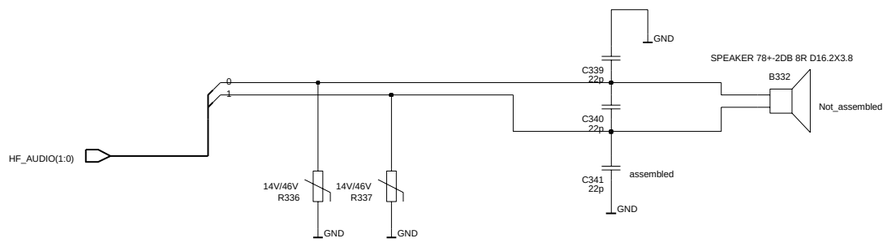


Place R332 and R333 near mic

Note: there is possibility to use qada_01 if actual adapter is not available 22.03.01



Place R334 and R335 near earpiece

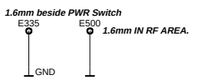


Place R336 and R337 near speaker

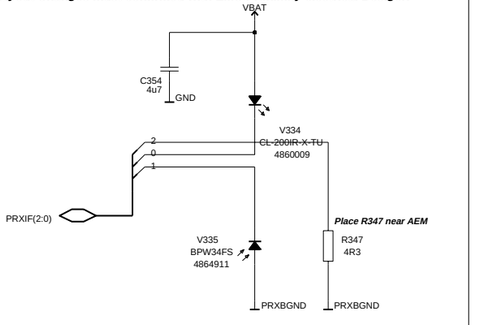
Audio Chamber Location Holes:

1.6mm beside PWR Switch

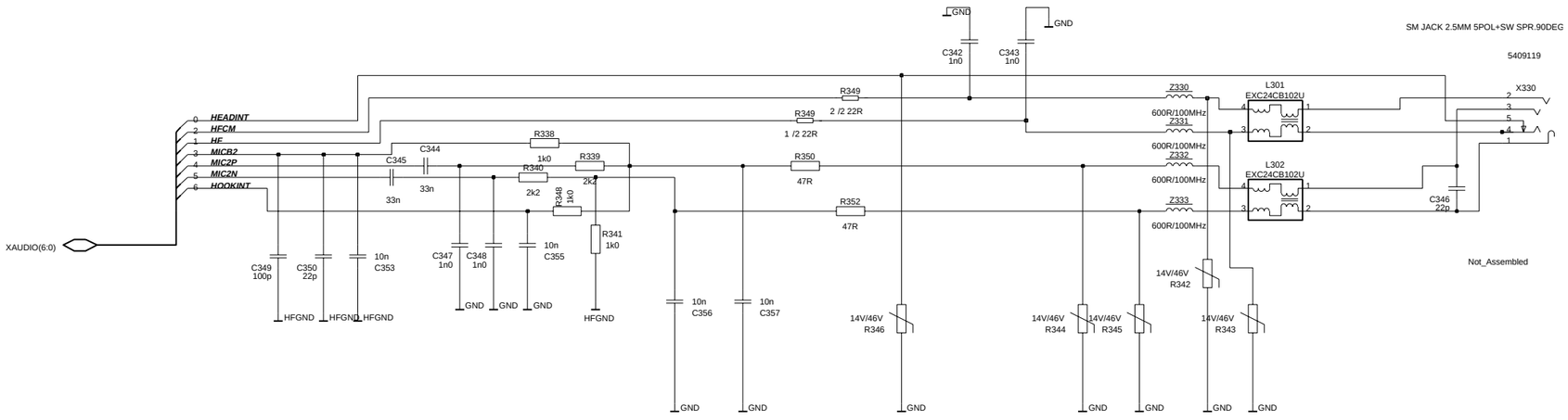
1.6mm IN RF AREA.



Proximity Receiver V335 signals are very sensitive to Noise. Special Attention is needed. Any Layout Changes must confirmed with EMC/Proximity electrical Desiger.



Proximity Sensor



Place R342 - R346 near X330

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Name Calypso audio

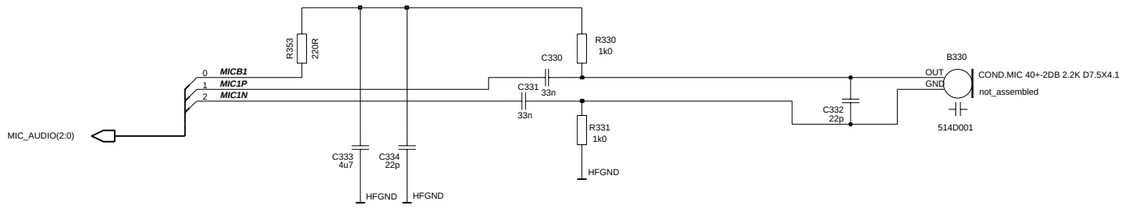
Assoc

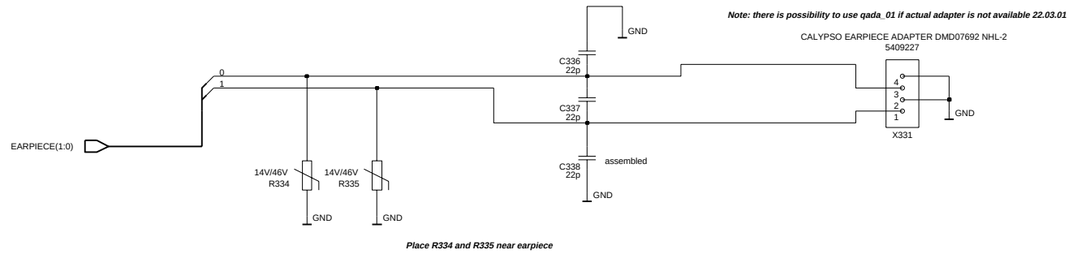
Appr

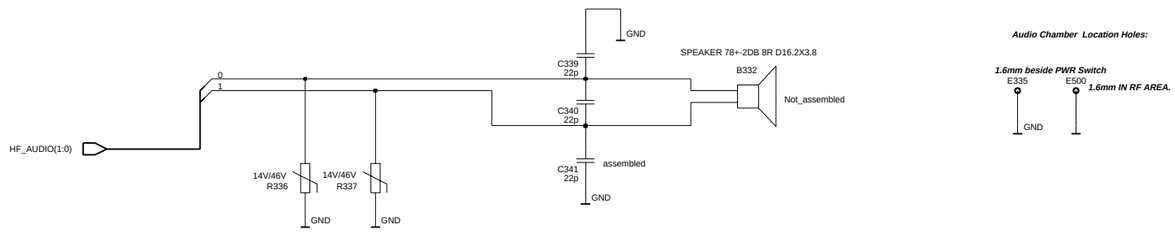
Des. Jarvinen dd-mmm-yy 06-Oct-2000

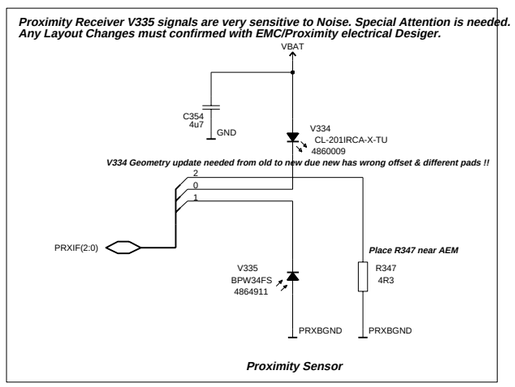
Audio, version lg4_08_05

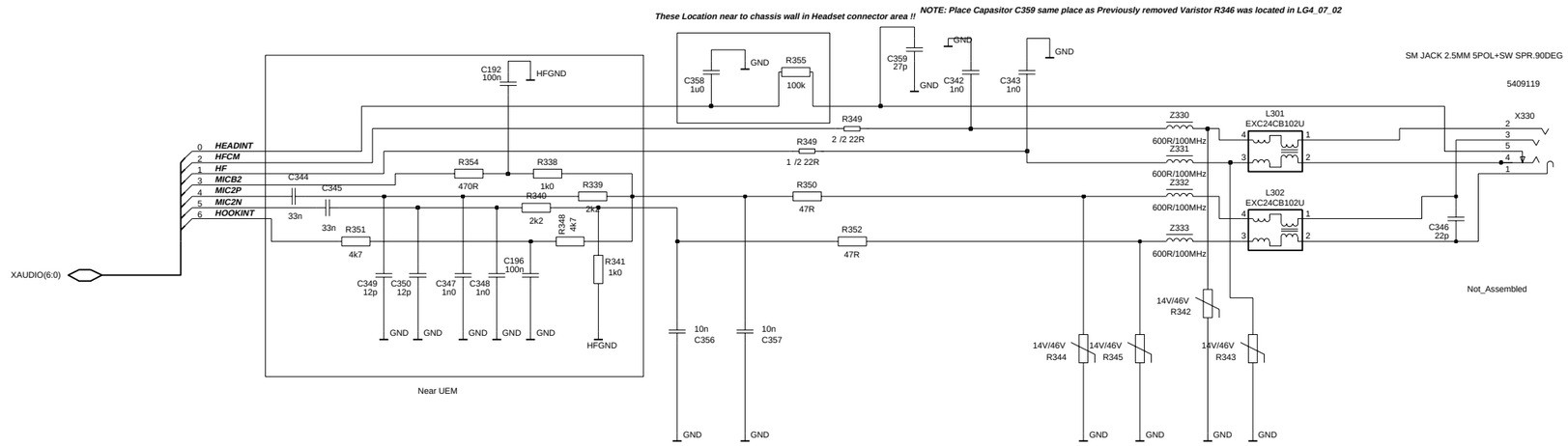
UIDRV(5:0)











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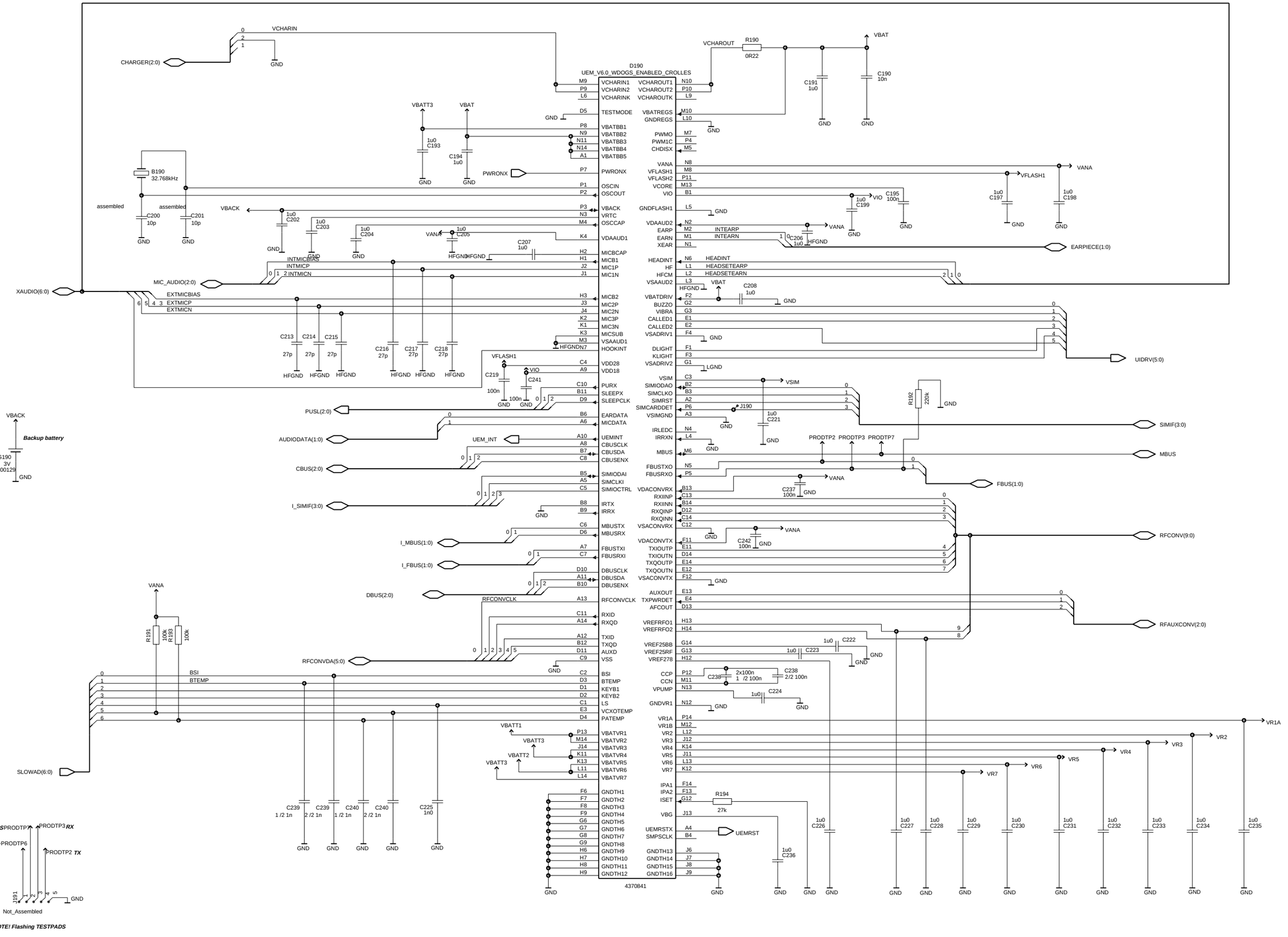
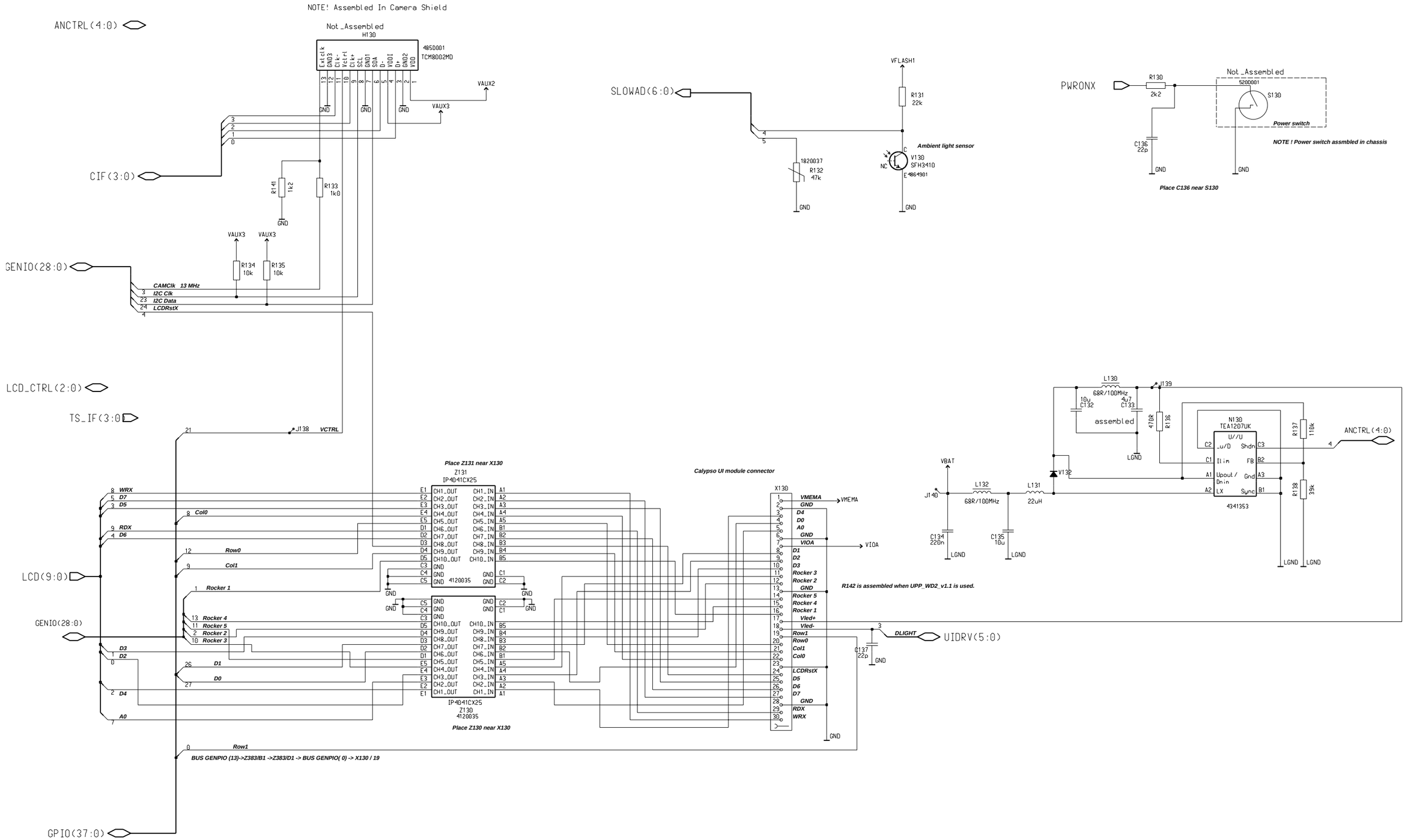
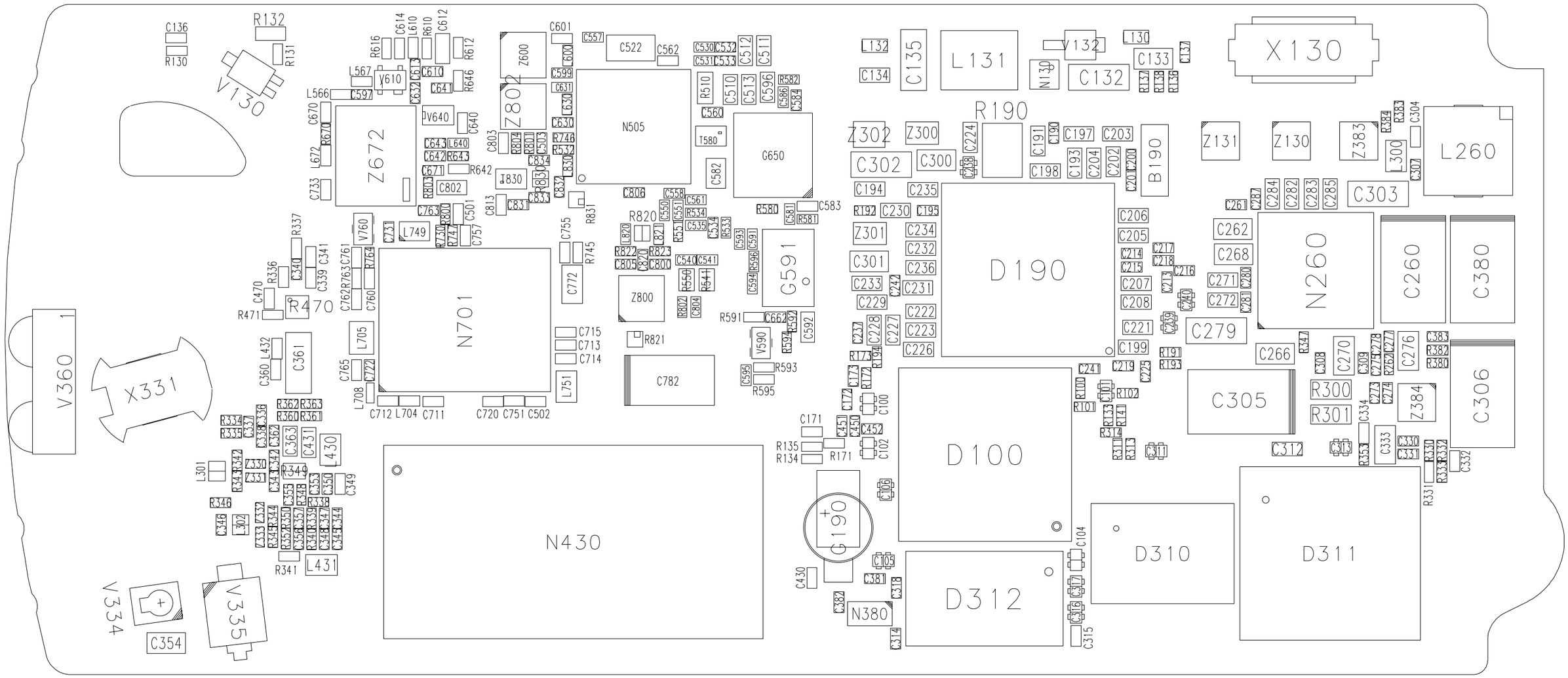
UEM Diagram


D190
UEM_V6.0_WDOGS_ENABLED_CROLLES
VCHARIN
CHARGER(2:0)
VCHAROUT
R190
0R22
VBAT
C190 10n
C191 1u0
VBATT3
C193 1u0
C194 1u0
PWRONX
B190 32.768kHz
assembled
C200 10p
C201 10p
VBACK
C202 1u0
C203 1u0
C204 1u0
C205 1u0
VANA
C206 1u0
HFGND
C207 1u0
C208 1u0
VIO
C195 100n
C199 1u0
C197 1u0
C198 1u0
VFLASH1
GNDFLASH1
VDAAUD2
EARP
EARN
XEAR
INTEARP
INTEARN
EARPIECE(1:0)
HEADINT
HF
HFCM
VSAAUD2
HEADSETEARP
HEADSETEARN
VBATDRIV
BUZZO
VIBRA
CALLED1
CALLED2
VSADRIV1
VSADRIV2
DLIGHT
KLIGHT
UIDRV(5:0)
MIC_AUDIO(2:0)
XAUDIO(6:0)
EXTMICBIAS
EXTMICP
EXTMICN
INTMICBIAS
INTMICP
INTMICN
C213 27p
C214 27p
C215 27p
C216 27p
C217 27p
C218 27p
C219 100n
C241 100n
VSIM
SIMIODAO
SIMCLKO
SIMRST
SIMCARDDET
VSIMGND
J190
C221 1u0
R192 220k
SIMIF(3:0)
PRODTP2
PRODTP3
PRODTP7
IRLEDC
IRRXN
MBUS
FBUSTXO
FBUSRXO
FBUS(1:0)
VDACONVRX
RXIINP
RXIINN
RXQINP
RXQINN
VSACONVRX
C237 100n
RFCONV(9:0)
VDACONVTX
TXIOUTP
TXIOUTN
TXQOUTP
TXQOUTN
VSACONVTX
C242 100n
AUXOUT
TXPWRDET
AFCOUT
RFAUXCONV(2:0)
VREFRFO1
VREFRFO2
VREF25BB
VREF25RF
VREF278
C222 1u0
C223 1u0
CCP
CCN
VPUMP
GNDVR1
C238 2x100n 1 /2 100n
C224 1u0
VR1A
VR2
VR3
VR4
VR5
VR6
VR7
IPA1
IPA2
ISET
R194 27k
VBG
UEMRSTX
SMPSCLK
UEMRST
C226 1u0
C227 1u0
C228 1u0
C229 1u0
C230 1u0
C231 1u0
C232 1u0
C233 1u0
C234 1u0
C235 1u0
C236 1u0
PUSL(2:0)
AUDIODATA(1:0)
UEM_INT
CBUS(2:0)
I_SIMIF(3:0)
I_MBUS(1:0)
I_FBUS(1:0)
DBUS(2:0)
RFCONVCLK
RFCONVDA(5:0)
SLOWAD(6:0)
BSI
BTEMP
VBATVR1
VBATVR2
VBATVR3
VBATVR4
VBATVR5
VBATVR6
VBATVR7
VBATT1
VBATT2
GNDTH1
GNDTH2
GNDTH3
GNDTH4
GNDTH5
GNDTH6
GNDTH7
GNDTH8
GNDTH9
GNDTH10
GNDTH11
GNDTH12
GNDTH13
GNDTH14
GNDTH15
GNDTH16
4370841
C239 1 /2 1n
C239 2 /2 1n
C240 1 /2 1n
C240 2 /2 1n
C225 1n0
R191 100k
R193 100k
VBACK
Backup battery
G190 3V 4700129
MBUS PRODTP7 RX
VPP PRODTP6
PRODTP2 TX
J191
Not_Assembled
NOTE! Flashing TESTPADS

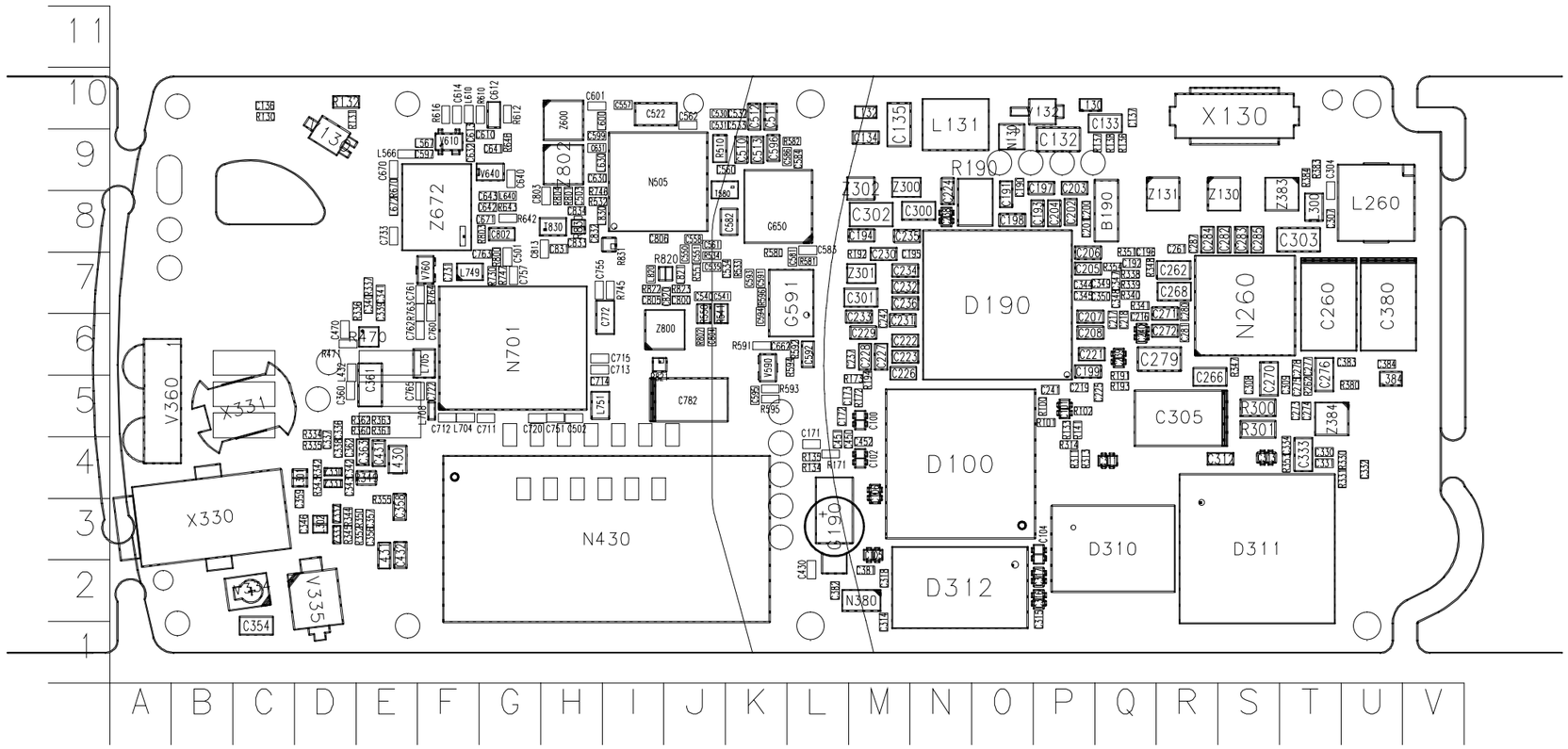
User Interface Diagram



Parts Placement Diagram LG4



Parts Placement Diagram, version LG4_08_05



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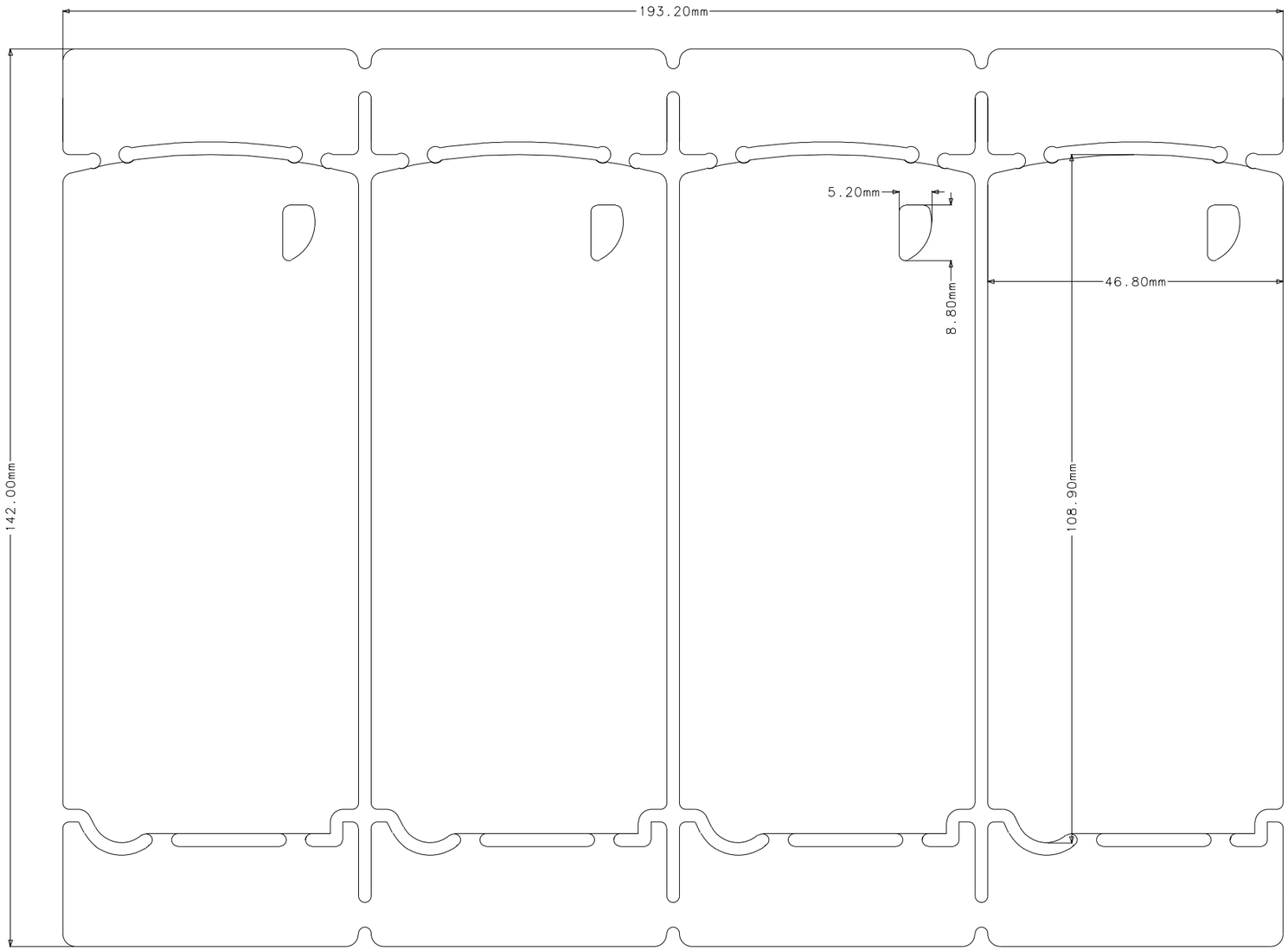

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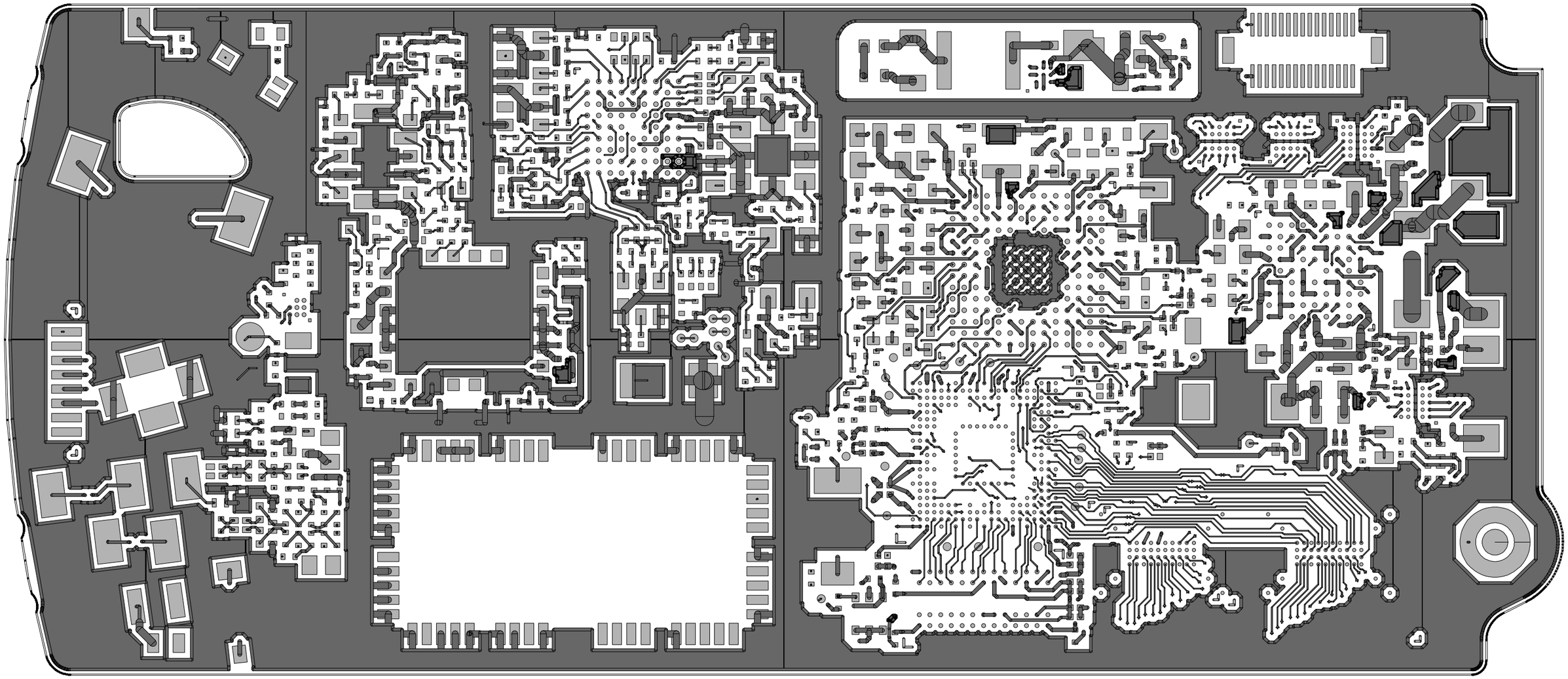
I1



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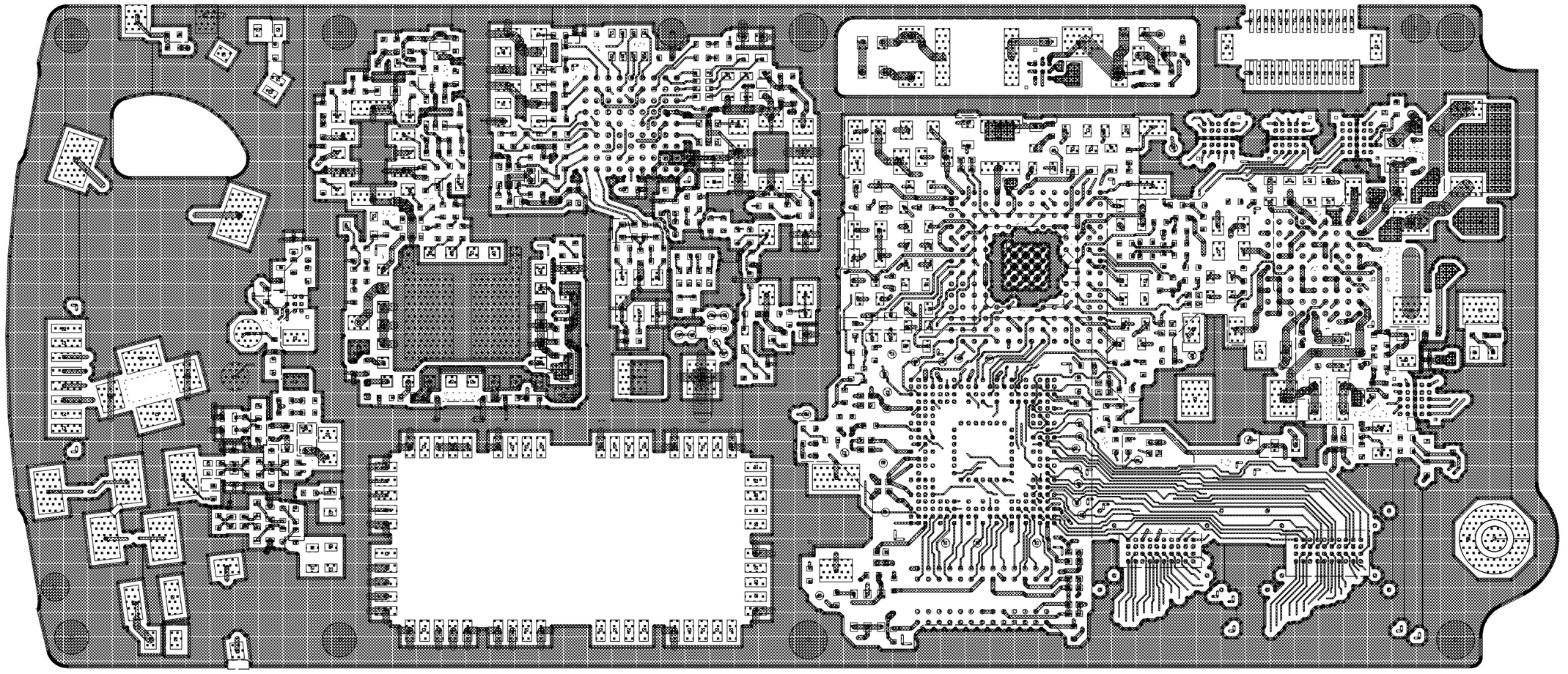
I1, version lg4_08_05



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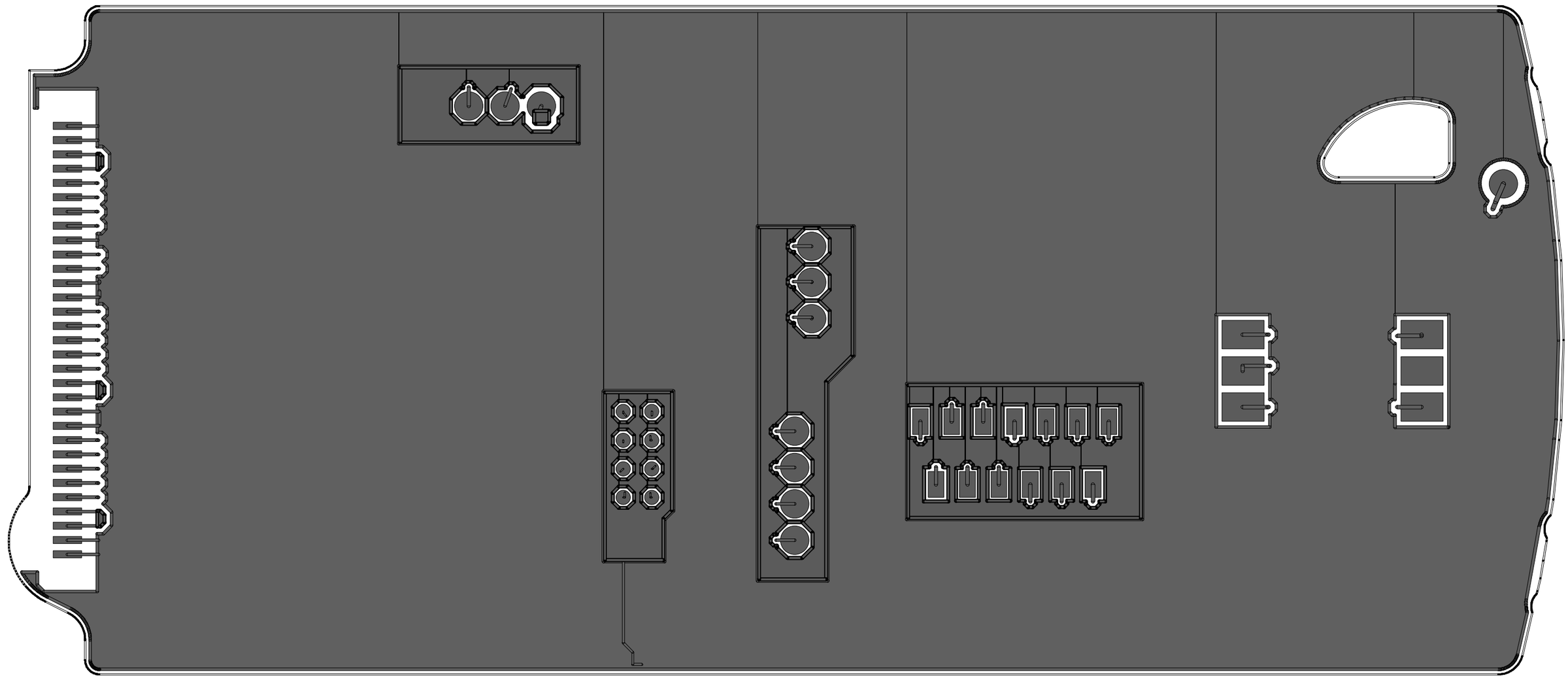
I8



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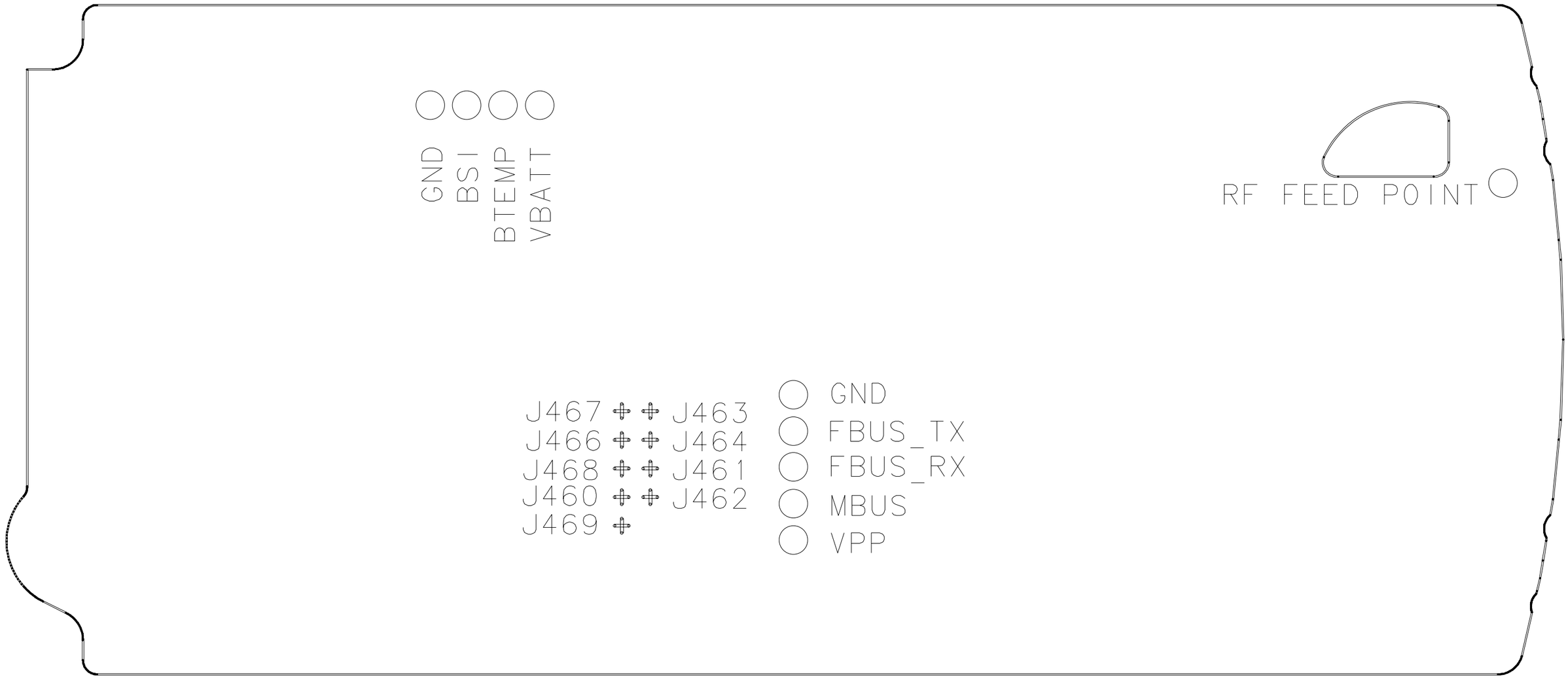
Testpoints Bottom



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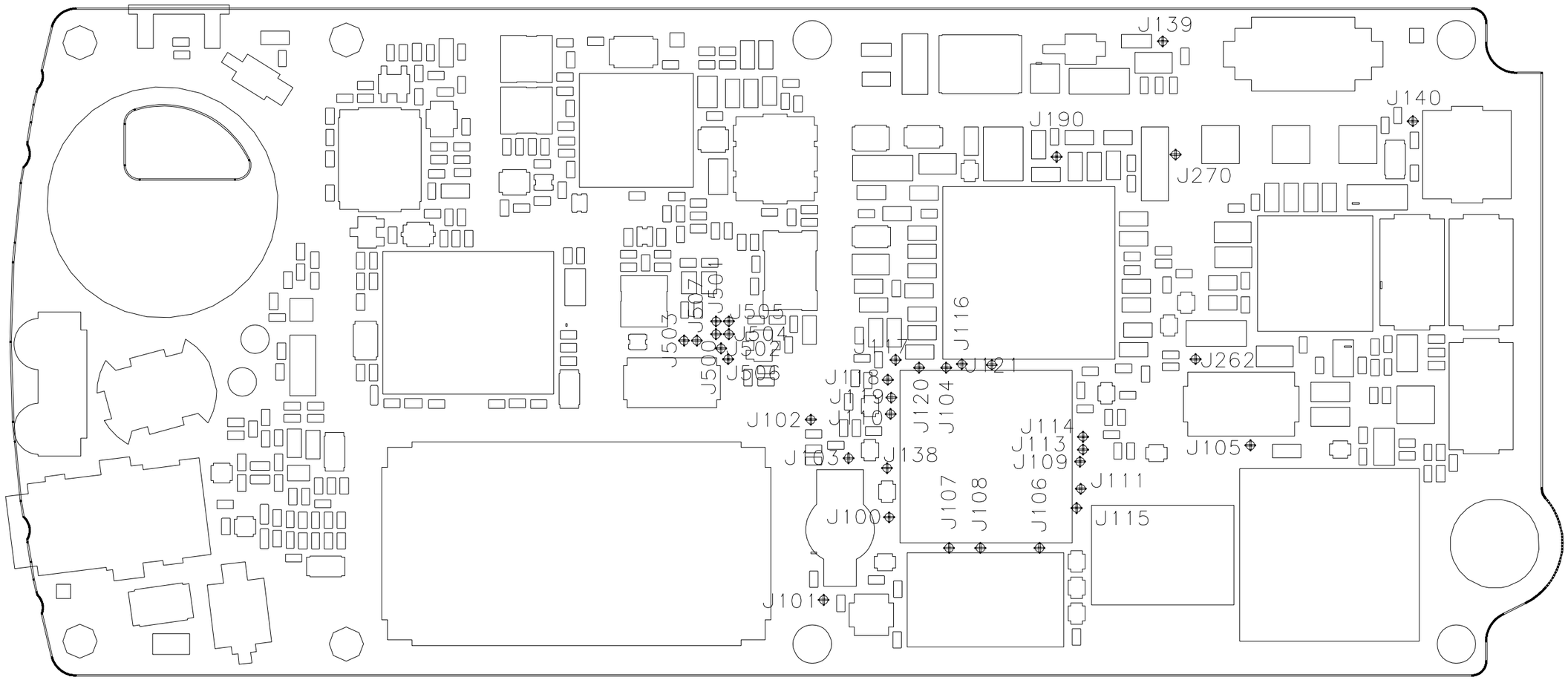
Testpoints Top



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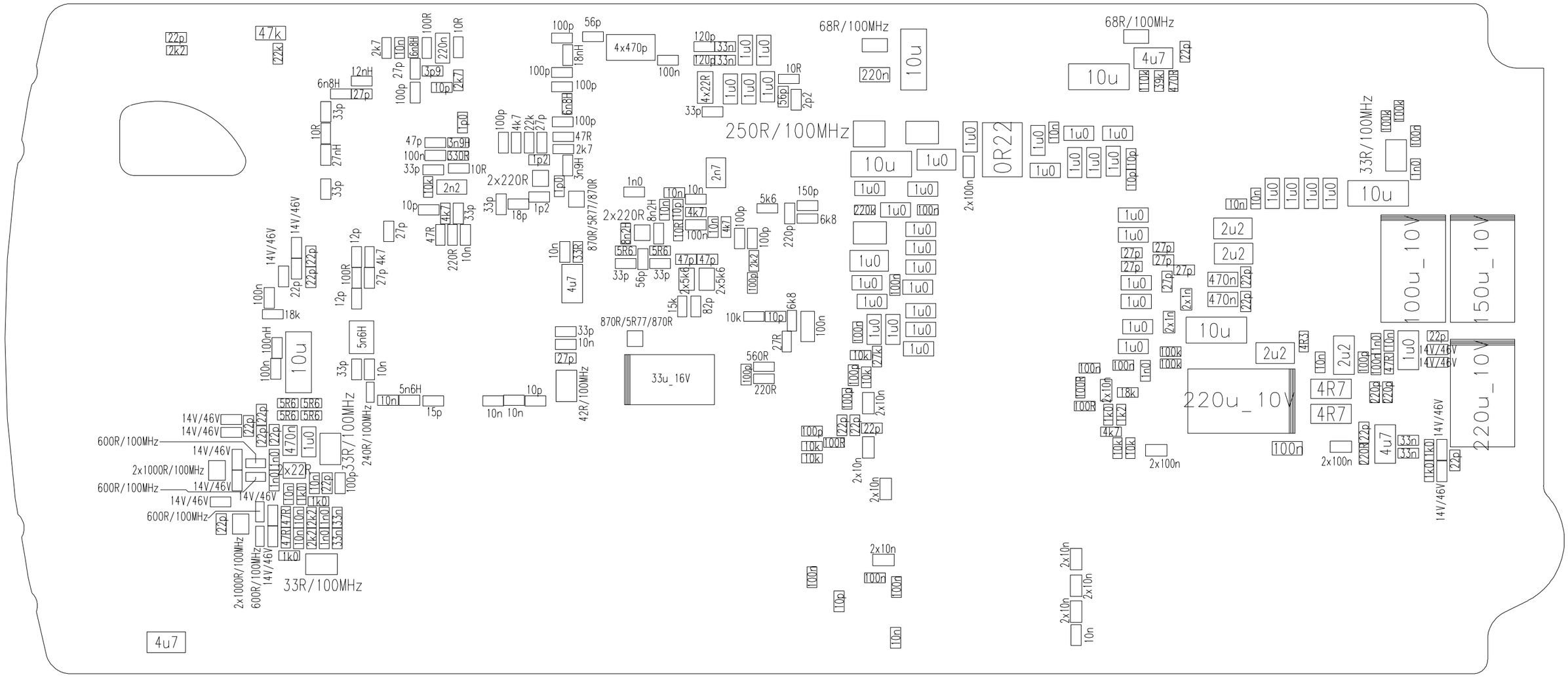
Values Top



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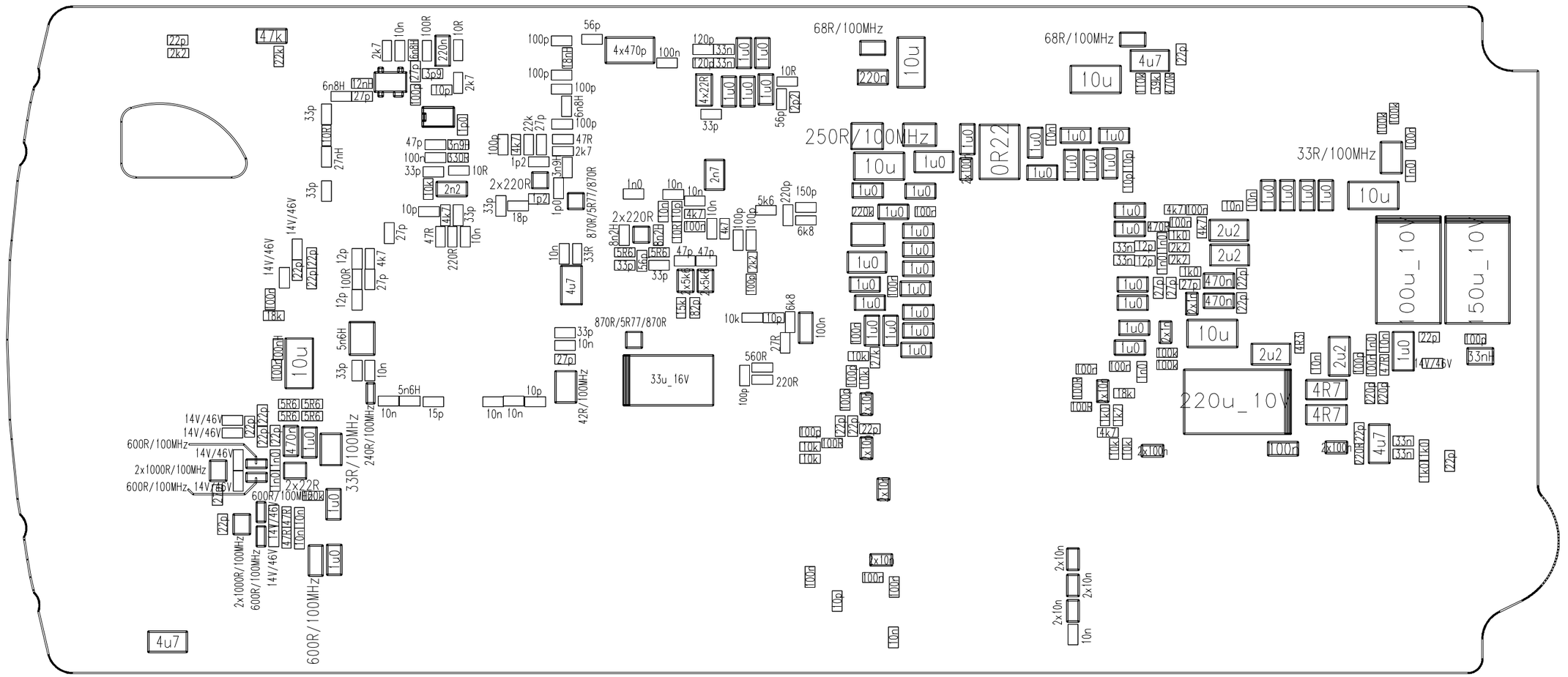
Values Top I, version lg4_08_05



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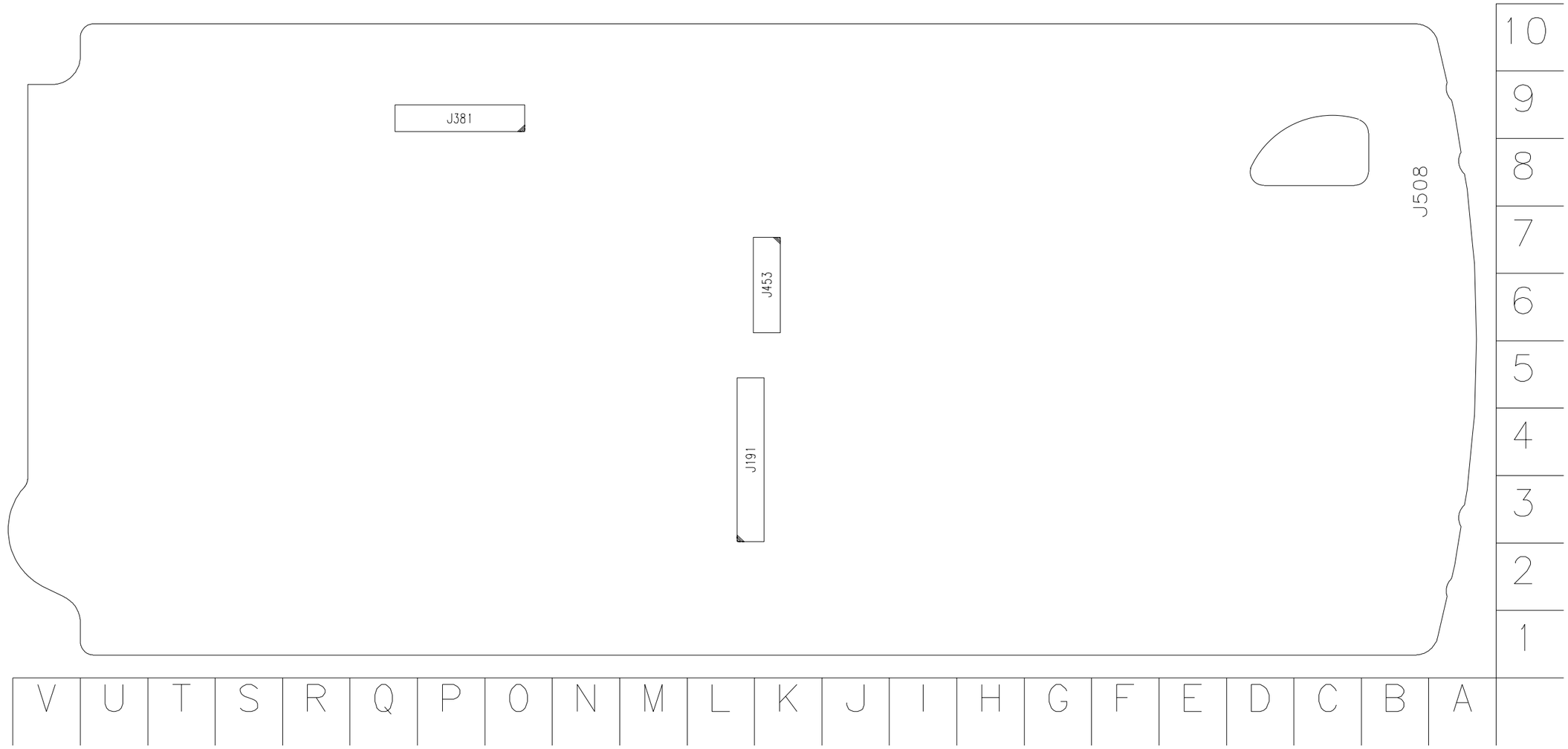
ASM Bottom



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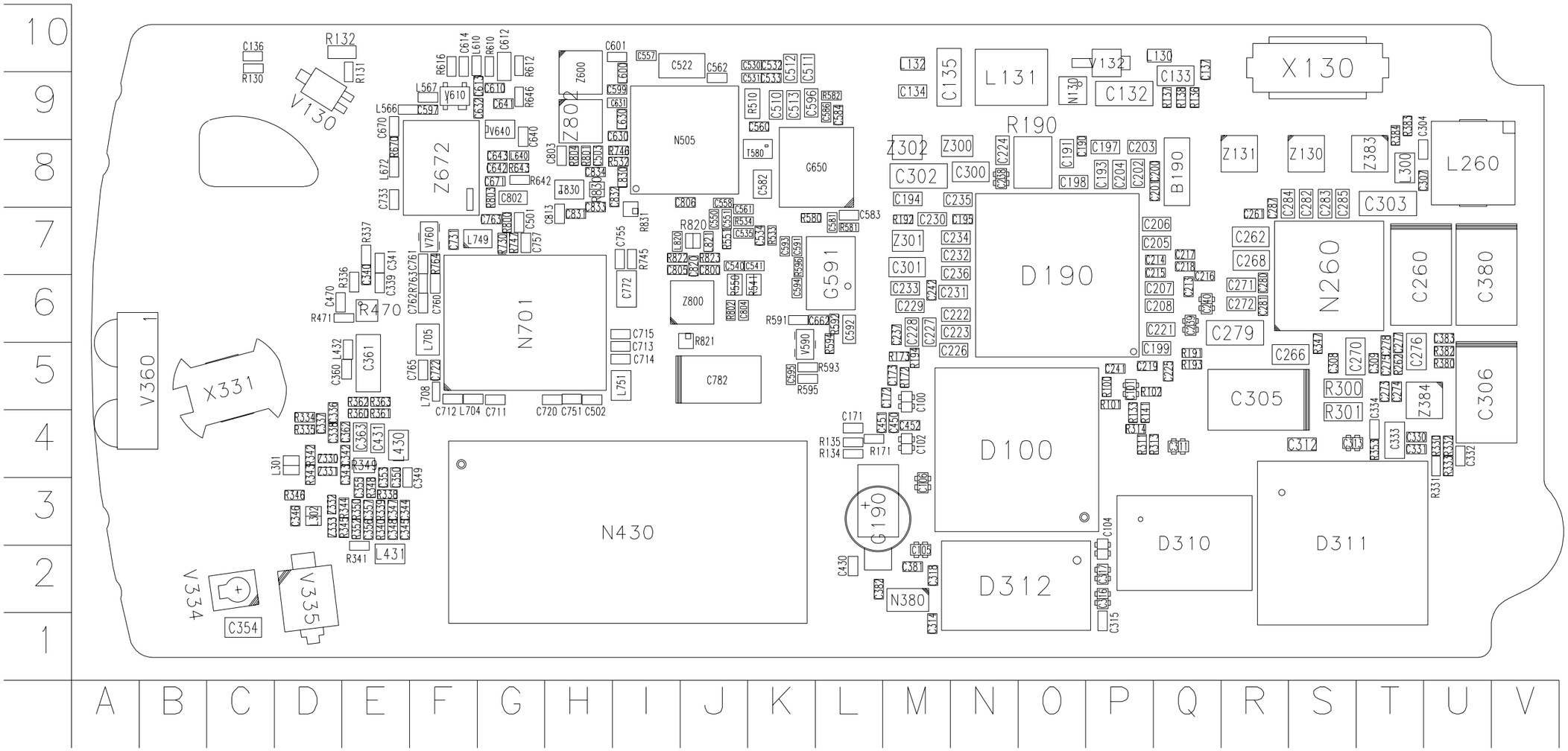
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